No. 29.

Caradoc and Severn Valley Field Club.

Record of Bare Facts

FOR THE YEAR 1919.

A LIST OF THE
MORE NOTEWORTHY OBSERVATIONS
MADE BY MEMBERS OF THE
CARADOC & SEVERN VALLEY FIELD CLUB
AND OTHERS.

1920.

SHREWSBURY:
ADNITT & NAUNTON, LTD., PRINTERS, THE SQUARE.

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The names printed in italics after occurrences recorded are those of the observers.

The names of Meteorological observers are given in the first table under that head.

BOTANY.

N.B.—Roman numerals refer to the Botanical Districts of the County as on the Caradoc Map.

FLOWERING PLANTS.

N.B.—An asterisk * is appended to first record for the County.

The advent of peace has not at once produced, as some vainly hoped, a complete respite from public cares and anxieties, and the world, now seething with general unrest, does not yet offer many opportunities for quiet and contemplative studies. We must therefore be grateful at present for any material we can receive for our records. To Mr. H. E. Forrest and Mr. George Potts our thanks this year are chiefly due, and likewise to Mr. W. B. Allen. We must hope that the Club may soon produce new enthusiasts,—such as was the late Captain Gilbert Johnson,—to stimulate us for future efforts to render the Botanical Survey of Shropshire more complete. *Large tracts still remain unexplored.* British Critical Botany has sustained this past year a severe and almost unexampled loss in the passing away of the Rev. Edward S. Marshall, till lately Rector of West Monkton, Taunton, Somerset, under most sad circumstances. His knowledge of the more difficult genera of Plants was profound, and he was always ready to impart it to others. I made a point of frequently consulting him in such cases as the numerous hybrids of the Willow Herbs (Epilobium), the Birches (Betula) and other groups of which he had made a special study. His Herbarium is, I believe, left to the University of Cambridge.

J. COSMO MELVILL.

Ranunculus pseudo-fluitans "Bab." *Hiern.*
IV. Rea Brook, rarely. *J. C. Melvill.*

R. arvensis, *L.*
XII. Chicken run at Benthall. *G. Potts.* An alien plant there.

Berberis vulgaris, *Linn.*
IV. Hedgerow just below Sharpstones Hill, *J. C. Melvill.* I have noticed the Barberry also in two other localities in the same division.

Neckeria (Corydalis) bulbosa *N. E. Br.*

IV. Though apparently extinct in the Meole Brace locality given in a previous Record, this plant grows extensively in rock gardens near, often escapes and readily increases. It is probably no where to be found really wild in this country. *J. C. Melvill.*

Cardamine pratensis. *L,* **flore pleno.**

VI. Abundant in meadows below the bridge crossing the river at Clunton. *G. Potts.*

Erysimum perfoliatum. *Crantz.*

XII. Alien in chicken run at Benthall. *G. Potts.* This plant has lately been recorded for Cheshire, and I have found it twice at (IV) Meole Brace. It is type of the genus Conringia D.C. *J. C. Melvill.*

Sisymbrium pannonicum. *Jacq.*

XII. With the preceeding. *G. Potts.* This alien is rapidly growing common. I have noticed it in three distinct Stations in the County, viz: IV. By the Ford, Meole Brace, VII. Near Wem Station. VIII. Siding at Buildwas, very plentiful. *Melvill.*

S. Sophia. *Linn.*

XII. Chicken run at Benthall, with the two preceding. *G. Potts.* This plant has more claim to be a true native [None who have seen it growing in the Fen districts of Cambridge and Huntingdon would doubt this. It is especially frequent between Ely and Wicken].
J. C. Melvill.

Diplotaxis tenuifolia *D.C.*

XII. Walls of Ludlow Castle. *H. E. Forrest.* This confirms the old record of seventy-eight years since given in p. 321 of Leightons' "Flora."

Lepidium ruderale. *Linn.*

XII. Very abundant in chicken run at Benthall. *G. Potts.* Long admitted to all Floras as native, I think many other aliens have just as much claim to be considered in the same category. *J. C. M.*

Reseda lutea. *L.?*

XIII. Buildwas. I have sent this curious form, which may be the var: gracilis, or indeed, a separate species, to the Botanical Exchange Club for expert pronouncement. The same was found near Stirchley (XIII) some years ago by the late Rev. W. Hunt Painter. It differs from the common lutea in being more graceful throughout, with narrow elongated spike, and fine cut leaves. It is not so frequent as it was in 1908-10 on the Railway embankment at Buildwas. *J. C. Melvill.*

Montia fontana. *Linn.*

IV. Bomere, on N.W. side of the Pool, mixed with Elatine hexandra, which it much resembles in growth, though this last is more actually aquatic. *J. C. Melvill.*

***Hypericum linarifolium.** *Vahl.*

XII. In extremly small quantity, but unmistakably this rare species. It is the rarest of our native St. John's Worts and restricted to the Southern Counties and Channel Isles. We can hardly imagine it anything but a casual here. It was discovered by Mr. W. B. Allen, who was kind enough on 27th June last, to conduct me to the place where I beheld it 'in situ.' Our joint diagnosis was confirmed by Mr. Edmund G. Baker, of the Botanical Department, British Museum. For various reasons the exact locality is not given.

Geranium pyrenaicum. *Burm fil.*

VI. Clunton. *G. Potts.*

This is another plant that is much extending in the County and I have recorded it from Stations IV., and VIII. and lately saw it beyond near Alberbury, in plenty and in another place on the Holyhead Road. *J. C. Melvill*

Melilotus indica. *A M.*

IV. Weed in garden, Meole Hall. *J. C. Melvill.*

This is the M. parviflora Desf.

***Acæna anserinæfolia** (*Forst*) *Druce* = **Sanguisorbæ.** *Vahl.*

IV. An alien. Native of Australia and New Zealand. It possesses a burr-like spiny fruiting calyx, which is the source of great trouble to sheep farmers in the Colonies, by the fruits getting inextricably entangled in wool. It forms compact sheets on the ground, and is nearly allied to our native Salad Burnet(*Poterium Sanguisorba L.*). Recently it made its appearance in cultivated ground near the river at Meole, but a subsequent tempestuous flood covered the spot with mud, till I fear it was quite destroyed. A full account is given of it by Druce " Adventive Flora of Tweedside, 1919," p. 66., it is being firmly established in great quantity near Melrose, Galashiels and Dryburgh, Co. Peebles.

Epilobium obscurum X adnatum. *?*

IV. Last year I reported this from Rea Brook. It was examined by the Rev. E. S. Marshall, whose verdict was that it was no hybrid, but an unusually small flowered variety of E. obscurum L. I wish he had seen living specimens, and think then he would have changed his mind. E. adnatum does grow in the vicinity, and can, in my opinion be detected in these specimens. *Melvill.*

Galium erectum. *Huds.*

XIII. Buildwas, one or two plants. *Melvill.*

XII. Field near Benthall Edge. *Potts.*

G. elatum. *Thuill.*

XII. Buildwas. *Melvill.* This is probably a free growing variety of *Mollugo L.*

Chrysanthemum segetum. *L.*

XII. Benthall. In old chicken-run. *G. Potts.*

Senecio squalidus. *L.*

VIII. XI. XII. Reports reach me that this handsome and meaningless named plant is rapidly invading Shropshire. For years it has been known in Oxford and its immediate vicinity, its headquarters there being upon College walls, also plentiful on Railway embankments. Now it seems to have taken a fresh start, and to be progressing "all along the line." *Melvill.*

Bartsia Odontites. *Huds. var.* **Serotina.** *Bertol.*

IV. Between Bayston and Lyth Hills. *Melvill.*

Lycopus europæus. *L.*

IV. A new station for this plant is in my grounds at Meole Hall, on the banks of the Rea Brook. Some very fine examples occurred. *Melvill.*

Satureia calamintha. *Scheeh.* = **Calamintha menthifolia.** *Host.*

VIII. This, the *Melissa Calamintha* of Linnæus, occurred within the enclosure of Ludlow Castle. *H. E. Forrest.*

Salvia verticillata. *L.*

XII. Very handsome and well established on the embankment of Railway Siding at Buildwas. Its exuberance of growth has caused it to monopolize much ground, and thus aided in stamping out certain more delicate aliens struggling for life in the same quarters. *Melvill.*

Plantago lanceolata. *L. var. Timbali Jordan.*

IV. Meole, in cultivated ground, very large and fine. *Melvill*

Beta *sp.* ?

IV. Pulley, in waste ground at entrance to a cornfield. This may be *B. vulgaris L.*

ARCHÆOLOGY.

During the past year about a dozen further examples of the supposed prehistoric cooking-places, to which attention was called in the *Transactions* for 1915 (p. 142), have been discovered at several places in the district lying between Shrewsbury and Newport, especially near Kinnersley, where they are situated along the margins of the peat-moors. One of the mounds of burnt and broken pebbles (the discarded pot-boilers from the cooking-place) measures about 90 feet in diameter. No fresh light has been thrown upon their age and purpose.

(*Cantrill.*)

The removal of a shed at the Austin Friars has brought to light some details of the building which had been hitherto concealed. During alterations to Messrs. Boots' premises on Pride Hill two carved stones from the head of a 14th century doorway were found, but it is doubtful whether they were in any sense *in situ*.

An early doorway in Vaughan's Mansion has been brought to light during recent restoration. It dates from about 1300, so belongs to the original mansion built by Sir Thomas Vaughan. It was partly covered by the timber screen which—with the stone-mullioned windows and hammer-beam roof—were probably inserted about 1500 by William Mytton.

THOMAS AUDEN.

ZOOLOGY.

Perhaps the most interesting occurence of the year 1919 was the breeding of a pair of Pied Flycatchers at Church Stretton, where a brood was reared in a nesting box in a garden. I have long suspected that the Golden Plouer nested on the Welsh border of Shropshire, and Mr. J. H. Owen informs me that he found a nest on the Race-course Hill, Oswestry, in 1914. The Long-tailed Tit has partially recovered from the declination it suffered in 1917, but the Gold crest is still very much below usual numbers. Some of our winter visitors were remarkably numerous—notably the Fieldfare, Redwing, Brambling and Siskin. The Little Owl has still further increased as a breeding species, and one was obtained in Montgomershire—first record for that county. Of the rarer birds locally mention may be made of a Hoopoe obtained near Wem, Bartailed Godwits at Clun; Hobby seen at Dowles; Green Sandpiper at Ludlow, Cressage, and Craven Arms; and a male Harrier (species doubtful) at Shrewsbury. From North Wales we have records in Anglesey of the American Blue-winged Teal, Night Heron, and Buzzard—the latter, though common in other parts of Wales being very rare in the island county. Adult male and female Goosanders were obtained at Meifod, Montgomeryshire while the Woodlark was found in three localities near Newtown in the same county. Several Velvet Scoters and a large party of Richardson's Skuas were seen from the Orme's Head, and it seems evident that the last-named species is fairly common in the district. Nightingales were remarkably numerous in Shropshire this year and ranged much further than usual N.W. one taking up quarters at Middletown exactly on the borders of Montgomeryshire and Shropshire. A bird which was believed to be a Marsh Warbler was heard and seen by Marbury Mere on the Cheshire border. This species has never before been identified in the district. Amongst Mammals we have records of the Whiskered Bat at Bridgnorth, Marten at Barmouth, and Polecat at Carnarvon. The Natterjack Toad was found near Bangor, some twenty miles further west than it had been previously recorded.

H. E. FORREST.

MAMMALS.

Nyctalus noctula (Noctule). *Forrest.* April 17th, Llandrindod.

Pipistrellus pipistrellus (Pipistrelle). *Huxley.* Nov. 16th, cold morning, one flying about Mardol Head, Shrewsbury. *Mountford.* Oct. 6th, one flying by day, Churchstoke.

Myotis mystacinus (Whiskered Bat). *Pitt.* April 15th, female, Bridgnorth. In 1914 colony in cellars of ruins Willey Old Hall.

Plecotus auritus (Long-eared Bat). *Elliott.* March 1st, on wing Dowles.

Erinaceus europæus (Hedgehog). *Pitt.* Oct. 13th, quite young one found Bridgnorth—very late date.

Sorex minutus (Lesser Shrew). *Pitt.* One caught by cat, Bridgnorth

Talpa europæa (Mole). *Forrest.* Numbers found dead on ground after long drought July—August, uninjured: apparently died from lack of food or water.

Vulpes vulpes (Fox). *Potts and others.* Great increase during the War, owing to cessation of hunting.

Martes martes (Pine Marten). *Liverpool Post.* Sept. 24th, One killed near Barmouth.

Mustela erminea (Stoat). *W. Dalgish Bellasis,* in *The Field* June, mentions two instances of Stoats being seen leaving bodies of freshly killed lambs, in Shropshire. *Horton.* Fox-cubs killed by Stoat? Wenlock.

M. putorius (Polecat). *Daily Mail.* Dec. 1st, one killed, Llanberis.

Sciurus vulgaris (Squirrel). *Pitt.* Scarce, Bridgnorth.

Muscardinus avellanarius (Dormouse). *Pitt.* Has disappeared Bridgnorth district where it was fairly common.

Apodemus sylvaticus wintoni (Yellow-necked Mouse). *Elliott.* December. Five caught in Dowles Manor House; one 8¼ inches total length.
Pitt. All mice greatly reduced in numbers. Bridgnorth,

BIRDS.

Turdus viscivorus (Mistle Thrush). *Bowcock.* April 10th, nest with two eggs, and with young birds.

T. philomelus (Song Thrush). *Bowcock.* March 27th, Two eggs. Wem. *Mountford.* April 8th, one egg, Churchstoke.

T. musicus (Redwing). *Elliott.* Oct. 30th, Dowles. *Pitt.* Exceptionally numerous in autumn, Bridgnorth: April 3rd, about 40 passed over. *Forrest.* Oct. 16th, heard Shrewsbury. *Thomas.* Oct. 13th, one found with broken wing, Holywell: still alive in cage, Feb. 1920.

T. pilaris (Fieldfare). *Elliott.* Nov. 7th, numerous Dowles, and *Pitt.* Bridgnorth. *Horton.* April 10th, Wenlock. *Forrest.* Rare this year, but came with a rush with the cold snap second week November.

T. merula (Blackbird). *Elliott.* Jan. 22nd, in good song, Dowles. *Bowcock.* March 23rd, Two eggs, Wem. *Hodges.* May 5th, brood left nest in garden Ellesmere; 15th, began laying in same nest, laid three eggs, and eventually brought off second brood. *Mountford.* March 14th, carrying hay, Churchstoke.

T. torquatus ((Ring Ouzel). *Owen.* April 19th, Knighton.

Œnanthe œnanthe (Wheatear). *J. H. Owen.* April 8th, Oswestry. *Furley.* 4th, Llangollen. *Elliott.* May 8th, Dowles. *Mountford.* May 25th, several on hill, Churchstoke.

Saxicola rupetra (Whinchat). *Elliott.* May 6th, Dowles. *Thomas.* May 7th, Dyffryn. *Owen.* 6th, Knighton.

S. torquata (Stonechat). *Elliott.* March 14th, male, Dowles

Phœnicurus phœnicurus (Redstart). *Furley.* April 22nd, to 30th, arrived increasingly, Llangollen. *Elliott.* 18th, Dowles. *Potts.* None Broseley district but fairly numerous around Clun in May. *Brown.* Scarce this season Bucknell district. *Mountford.* July 7th, nest four eggs, Churchstoke. *Thomas.* May 14th, building, Penmaenpool. *Owen.* April 21st, Knighton.

Luscinia megarhyncha (Nightingale). *Ingrams.* May 11th, one singing on Kingsland every night for a fortnight. *Beddows.* Another on the Ellesmere Road, Shrewsbury. *Forrest.* Another at Red Hill, and a fourth at Middletown on the Montgomeryshire border—quite a fresh locality. *La Touche.* June 7th, Wistanstow. *Elliott.* May 11th, Dowles. *Potts.* First Broseley May 8th.

Sylvia cinerea (Whitethroat). *Forrest.* May 6th, Shrewsbury; 8th swarming. *Pitt.* 8th, many Bridgnorth. *Etches.* 8th, Whitchurch. *Elliott* April 27th, Dowles. *Lang.* May 5th, Ludlow. *Potts.* 8th, numerous Broseley. *Thomas.* May 6th, Holywell; June 9th, nest with tufts of white down, outside and inside. *Owen.* May 6th, Knighton.

S. curruca (Lesser Whitethroat). *Pitt.* May 8th, one Bridgnorth. *Etches.* 8th, several Whitchurch. *Elliott.* April 25th, Dowles. *Cummings.* May, fairly common Gresford, Denbighshire.

S. atricapilla (Blackcap). *Pitt.* May 7th, Bridgnorth. *Elliott.* April 19th, Dowles. *Lang.* 13th, Ludlow. *Potts.* 21st, Benthall. *Cummings* May, very numerous Gresford, Denbighshire. *Thomas.* May 6th, Holywell.

S. borin (Garden Warbler). *Etches.* May 8th, Whitchurch. *Elliott.* 6th, Dowles. *Pitt.* 10th, Bridgnorth. *Lang.* 8th, three Ludlow. *Potts.* April 21st, Benthall. *Cummings.* May, very numerous Gresford, Denbighshire. *Owen.* May 9th, Knighton.

Regulus regulus (Goldcrest). *Elliott.* Jan. 26th, one Dowles.

Phylloscopus collybita (Chiffchaff). *Pitt.* April 8th, Bridgnorth. *Forrest.* 10th, Ruyton-xi-towns. *J. H. Owen.* 8th, Oswestry. *Furley.* 12th, Llangollen; all left district by May 4th. *Elliott.* 7th, one seen and 8th, two in song, Dowles:—Sept. 29th. *Lang.* April 17th, Ludlow. *Potts.* 4th, Benthall. *Horton.* 14th, Wenlock *Woodhouse.* May 1st, Corvedale. *Hodges.* April 13th, Ellesmere: Sept 25th, singing. *Owen.* April 13th Knighton.

P. trochilus (Willow Wren). *Forrest.* April 12th, Shrewsbury and 17th, Llandrindod. *Etches.* 20th, Whitchurch. *Furley.* 18th to 21st, arrived increasingly, Llangollen. *Pitt.* 20th, Bridgnorth. *Elliott.* 14th, Dowles. *Lang.* 17th, Ludlow. *Potts.* 17th, Benthall. *Horton.* 19th, Wenlock. *Congreve.* June 26th, nest on top of lateral bough of young fir-tree, 3ft. 6 inches above ground at Kerry, Montgomeryshire. *Forrest.* August, song renewed latter half of month, into September. *Hodges.* April 24th, Ellesmere *Thomas.* 19th Holywell. *Owen* 12th, Knighton.

P. sibilatrix (Wood Wren). *Forrest.* May 15th, Middletown. *Elloitt* 5th, Dowles. *Lang.* 2nd, Ludlow. *Thomas.* 9th, Holywell *Owen.* 8th, Knighton.

Acrocephalus palustris (Marsh Warbler). *Etches.* May 21st, one listened to for a long time, and also watched at fairly close quarters by Marbury Mere, Whitchurch, on the borders of Shropshire and Cheshire. New record for Shropshire. Nested -in S. Staffordshire (*See Trans. N. Staffs Field Club*).

A. schœnobœnus (Sedge Warbler). *Forrest.* May 8th, Wenlock. *Elliott.* 5th, Dowles. *Lang.* 7th, Ludlow. *Thomas.* Mag 6th, Holywell.

Lucustella nœvia (Grasshopper Warbler). *Lang.* June 26th, one Ludlow. *Potts.* May 8th, Ironbridge. *Thomas.* May 13th, "reeling" 11 a.m., Dyffryn: two other pairs near.

Parus ater (Coal Tit). *Brown.* Decreasing Bucknell district.

P. palustris (Marsh Tit). *Brown.* Increasing Bucknell district.

Ægithalos caudatus (Long-tailed Tit). *Elliott.* Jan. 26th, Two Dowles; Oct. 18th, family party. *Brown.* Re-appeared Bucknell district. *Thomas.* Aug. 11th, a few at Lampeter: none Holywell since 1917. *Forrest* Dec. 31st, family party of fifteen, Bomere.

Certhia familiaris (Tree Creeper). *Mountford.* July 13th, nest five eggs, Churchstoke.

Sitta europœa (Nuthatch). *Elliott.* April 19th, and 23rd, Dowles: June 3rd, calling; nested in plum tree near the Manor House; July 10th, young fledged and out of nest. *Cummings.* May, Gresford, several pairs *Mountford.* June 22nd, nest eight eggs, Churchstoke.

Motacilla rail (Ray's Wagtail). *Elliott.* April 28th, Dowles; Sept. 22nd. *Cummings.* May, Pair in meadows, Rossett, Denbighshire, probably nesting. *Hodges.* April 17th pair by Mere, Ellesmere. *Thomas.* June 6th, nest five fresh eggs, Holywell. *Owen.* May 19th, Knighton.

M. cinerea (Grey Wagtail). *Elliott.* May 19th, building nest in old Blackbird' snest back of granary away from water, Dowles: 21st finished; 23rd one egg; 27th five eggs.

Anthus trivialis (Tree Pipit). *Forrest.* May 8th, Wenlock. *Pitt.* April 30th, Bridgnorth. *Etches.* May 4th, Whitchurch. *Elliott.* April 15th, Dowles. *Potts.* 16th, Madeley. *Brown.* Many nests, Hopton Park, Bucknell. *Thomas.* May 7th, Dyffryn.

A. pratensis (Meadow Pipit). *Pitt.* March 31st,—snowing—flock of 300 passing N. near Bridgnorth: later a smaller flock about 50. *Elliott.* 18th, one, and 29th several, Dowles.

Lanius collurio (Red-backed Shrike). *Elliott.* May 12th, Dowles. *Potts.* 10th, Benthall. *Brown.* not one seen Bucknell district where usually several pairs.

Bombycilla garrula (Waxwing). *Whittaker.* Jan. 24th, 1914, party in Rectory Grounds, Church Stretton.

Muscicapa striata (Spotted Flycatcher). *Pitt.* May 12th, Bridgnorth. *Elliott.* 10th, Dowles. *Potts.* 12th, Benthall. *Owen.* 18th, Knighton.

M. hypoleuca (Pied Flycatcher) *Furley.* May 5th, Llangollen. *Thomas.* May 20th, two seen and heard between Waen Fawr and Llyn Quellyn. *Forrest.* Reared brood in nesting box, Church Stretton: new locality. *Heyward.* May 6th, Male, Tickwood. *Owen.* 13th, Knighton. *W. Davies.* 13th—June 3rd, young male Stourton, Staffs.

Hirundo rustica (Swallow). *Harries.* April 13th, Shrewsbury. *Forrest.* 16th, Baschurch; May 1st, Shrewsbury. *Mrs. A. B. Morris.* 19th, Stretton. *Pitt.* April 20th, two, Bridgnorth; May 6th, many, Ironbridge. *Etches.* April 11th, Whitchurch. *Furley.* 24th, Llangollen. *Pitt.* 20th, two, Morville; 27th, several arrived at the Albynes during snowstorm. *Elliott.* 14th, two, Dowles. *Lang.* 17th, one, Ludlow. *Potts.* 20th, one, Benthall. *Horton* 11th, Wenlock. *Woodhouse.* 25th, Corvedale. *Bowcock.* April 11th, one; 12th five; May 10th, nest three eggs, Wem. *Hodges.* April 19th, visited old nests Ellesmere: Oct 10th, one. *Mountford.* April 15th, one, Churchstoke. *Thomas.* 14th—Oct. 2nd, Holywell. *Owen.* April 12th, Knighton.

Delichon urbica (House Martin). *Forrest.* May 1st, Shrewsbury; 11th, many. *Pitt.* 6th, many, Ironbridge. *Furley.* May 1st, Llangollen. *Elliott.* April 27th, Dowles. *Lang.* May 5th, Ludlow. *Potts.* April 23rd, Jackfield. *Horton.* May 10th, Wenlock. *Hodges.* April 26th, Ellesmere: Oct. 4th, several. *Mountford.* April 26th, Churchstoke. *Thomas.* May 6th, Holywell. *Owen.* April 12th, Knighton.

Riparia riparia (Sand Martin). *Pitt.* May 6th, many, Ironbridge. *Furley.* 4th, Llangollen. *Elliott.* April 27th, Dowles. *Lang.* 23rd, several, Ludlow. *Potts.* 23rd, Jackfield *Horton.* 22nd, Wenlock. *Hamilton.* Three or four pairs nested in sand-bunkers on north shore of Conway Marsh—first time in 30 years. *Hodges.* April 6th, Ellesmere. *Owen.* 21st, Knighton.

Coccothraustes coccothraustes (Hawfinch). *Elliott.* May 14th, Nest one egg in pear tree, Dowles, covered by green leaf: 15th, two eggs covered with bits of blossom as if for camouflage: 16th, sitting on three eggs. *Cummings.* May, Pair, Marford, Denbighshire.

Fringilla cœlebs (Chaffinch). *Pitt.* March 31st, large flock of males near Bridgnorth. *Elliott.* Feb. 16th, in song, Dowles; many on 22nd. *Mounifford.* May 3rd, three eggs, Churchstcke *Bowcock.* April 29th, nests 1, 2, and 3 eggs, Wem,

F. montifringilla (Brambling). *Pitt.* Dec. 23rd, one, Wenlock, 26th, one, Linley. *Elliott.* Nov. 7th, thousands in flock, Arley (See Siskin). *Lang.* Oct. 29th, large flock at Ludlow; remained till December 20th. *Potts.* Large numbers, Benthall. *Horton.* April 11th, Wenlock.

Carduelis linaria cabaret (Lesser Redpoll). *Elliott.* Jan. 8th, large party on birches, Dowles. *Forrest.* Throughout the spring numbers frequented my garden at Bayston Hill, feeding on the seeds of Birches.

C. spinus (Siskin.) *Elliott.* Nov. 16th, Dowles. Birdcatcher reports it plentiful this year, as is also the Brambling. *Heyward.* November 9th, flock of about 20 and December 27th several, Tickwood, feeding on birch seeds.

C. carduelis (Goldfinch). *Cummings.* May, several pairs, Gresford, Denbighshire.

Emberiza hortulana (Ortolan Bunting). *Dr. N. F. Ticehurst.* noted several on Bardsey Island in September, 1913. One was killed at the lighthouse that June. See *British Birds* xiii, 67.

E. cirlus (Cirl Bunting). *Cummings.* May 7th, one singing, Marford, Denbighshire.

E. citrinella (Yellowhammer). *Owen.* June 18th, nest six eggs, Knighton.

Garrulus glandarius(Jay). **Pica pica** (Magpie). *Forrest, Pitt, and others.* Marked increase.

Corvus corax (Raven) *Hamilton.* Nested on a different site on Great Orme's Head: hitherto always on the north face under lighthouse: saw family party of five in June. *Hutchinson.* Believed to have nested this year on Little Orme's Head also; numerous here lately.

C. frugilegus (Rook). *Woodhouse.* In Corvedale started building, March 20th, but snowstorm 23rd stopped them; it was quite end of March before building became general, the result being a very small hatch *Mounifford.* March 4th carrying sticks, Churchstoke.

C. corone (Crow). *Thomas.* May 14th, nest five eggs, Dyffryn. Late.

Lullula arborea(Woodlark). *Congreve*. Sept.—Oct. Found in three localities near Newtown, Montg.

Apus apus (Swift). *Forrest*. May 5th, eight, 6 p.m., Shrewsbury; 8 p.m., several arrived, squealing; 6th, numerous. *Pitt*. 5th, one, and 6th, many. *Etches*. 5th, Whitchurch. *Furley*. 5th, Llangollen. *Elliott*. 5th, Dowles:—Aug. 9th; one Aug. 30th. *Lang*. May 5th, many Ludlow. *Potts*. 5th—Aug. 9th, Benthall: one Aug. 11th, *Horton*. May 4th, numbers, Wenlock. *Woodhouse*. 5th, Corvedale. *Bowcock*. 4th, Wem. *Mountford*. May 1st, seen Churchstoke. *Thomas*. May 5th—Aug. 8th, Holywell: two, 10th. *Owen*. May 5th, Knighton.

Caprimulgus europœus (Nightjar). *Elliott*. May 11th, Dowles. *Potts*. Very scarce. Only one heard; Whitwell, Much Wenlock. *Cummings*. One churring two nights second week in August—a late date.

Dryobates major (Great Spotted Woodpecker). *Pitt*. Increasing round Bridgnorth: 20 nests within half-mile radius of the Albynes. *Cummings*. May, Seen Gresford.

D. minor (Lesser Spotted Woodpecker). *Potts*. March 18th, heard and seen, Buildwas. *Elliott*. Feb. 28th, Rapping-call, Dowles. *Cummings*. May, Seen Gresford.

Iynx torquilla (Wryneck). *Elliott*. May 3rd, Dowles: July 8th, calling. *Potts*. June 25th, mating, Jackfield.

Upupa epops (Hoopoe). *Huxley*. April 22nd, male, Burlton.

Cuculus canorus (Cuckoo). *Forrest*. May 2nd, one seen, Shrewsbury; 5th, calling, 8 p.m. *Pitt*. 5th, many Bridgnorth. *Etches*. 2nd, Whitchurch. *Furley*. 5th, Llangollen. *Elliott*. April 23rd, Dowles; May 7th, female; June 25th, calling. *Lang*. April 23rd, Ludlow. *Potts*. 19th, one, and 24th several, Benthall *Horton*. 18th, Wenlock, May 20th, one with white feathers in wing, Wenlock. *Woodhouse*. April 30th, Corvedale. *Bowcock*. 20th, Wem. *Hodges*. June 24th, last heard, Ellesmere, but July 4th, one flew over uttering bubbling note. *Mountford*. April 18th, heard, and 22nd seen, Churchstoke. *Thomas*. 21st, Holywell. *Owen*. April 18th.

Tyto alba (Barn Owl). *Elliott*. May 10th, Dowles. "First ever seen here." *Lang*. Increasing, Ludlow. *Woodhouse*. By far the most numerous of the owls there, and all up Corvedale. *Brown*. All owls increasing Bucknell district.

Athene noctua (Little Owl). *Huxley*. April. Two caught in Rabbit-hole, near Shrewsbury. *Mr. Blundell Hawkes*. May 10th, nest three eggs in hole in apple tree, Stanton Lacy. *Pitt*. Sept. 2nd, young one shot out of brood reared Morville. A second pair believed to have also reared brood. *Forrest*. Sept. 20th, one seen Bicton, near Shrewsbury. Oct. 25th, one shot, Llanllugan first record in Montgomeryshire.

Circus cyaneus, or pygargus (Hen-or-Montagu's-Harrier). *Haydon.* May 9th, male pounced at chickens in poultry yard on Kingsland, Shrewsbury.

Buteo buteo (Buzzard). *Huxley.* Sept. 6th, female, Pitchford; 13th, male, Stoke on Trent. *Mills.* Sept. One shot, Amlwch—very rare Anglesey.

Accipiter nisus (Sparrow Hawk). *Elliott.* April 6th, One captured a Jay, Dowles. *Pitt.* Now numerous, Bridgnorth.

Falco subbuteo (Hobby). *Elliott.* June 4th, watched for an hour, Dowles.

Ardea cinerea (Heron). *Brown.* Increasing Bucknell district, nearest Heronry Oakeley Park.

Nycticorax nycticorax (Night Heron). *Coward.* in *British Birds*, xiii, 58, May 31st, one shot, Rhosneigr Anglesey.

Tadorna tadorna (Sheld-duck). *Thomas.* May 16th, nest ten eggs on sand-dunes, Holywell.

Anas discors (American Blue-winged Teal). *L.R. A. Gatehouse*, in *British Birds*, xiii, 85, male shot, Hollard Arms, Anglesey.

Oidemia fusca (Velvet Scoter). *R. W. Jones.* May 3rd, one, and Aug. 4th, five seen flying E, off Great Orme's Head.

Mergus merganser (Goosander). *Williams-Wynn.* Feb., female and March 5th, adult male, shot, Meifod.

Streptopelia turtur (Turtle Dove). *Pitt.* May 12th, Bridgnorth. *Forrest.* 15th, Middletown. *Elliott.* 10th, Dowles:—Aug. 30th. *Potts.* 10th, Benthall. *Horton.* 14th, Wenlock. *Cummings.* May, common Gresford, Denbighshire.

Lagopus scoticus (Red Grouse). *Mountford.* May 30th, nest four eggs, Churchstoke.

Alectoris rufa (Red-legged Partridge). *Lang.* Sept. 11th, covey of seven, Ludlow, one shot.

Crex crex (Corncrake). *Forrest.* May 14th, Bayston Hill. Fairly numerous this year. *Furley.* 5th, Llangollen. *Mrs. A. B. Morris.* 5th, Church Stretton. *Elliott.* 2nd, Dowles. *Lang.* April 17th, one Ludlow. *Horton.* May 11th, Wenlock. *Woodhouse.* Fair number Ludlow district. *Brown.* Few Bucknell district. *Bowcock.* May 4th, Wem. *Mountford.* 19th, Churchstoke. *Owen.* 13th, Knighton.

Charadrius apricarius (Golden Plover). *J. H. Owen.* In 1914, found nest with eggs on the Racecourse Oswestry: first record of nesting in Shropshire.

Vanellus vanellus (Peewit). *Mrs. A. B. Morris.* May 1st, eggs on sale, Stretton. *Bowcock.* April 13th, in Wem. *Mountford.* 8th, four eggs, Churchstoke.

Gallinago gallinago (Snipe). *Elliott.* Aug. 25th, one at Dowles; first seen here in 16 years.

Tringa totanus (Redshank). *J. H. Owen.* In 1918 pair with brood seen at Halston, near Oswestry: Redshanks also seen thereabouts in other summers. *Thomas.* May 22nd, nests with three and one egg, Dyffryn.

T. hypoleuca (Common Sandpiper). *Elliott.* April 14th,—Sept. 15th, Dowles. *Lang.* April 26th, two Ludlow. *Owen.* 12th, Knighton.

T. ochropus (Green Sandpiper). *Pitt.* March 25th, one on bank of Severn, Cressage; very cold E. wind. *Lang.* Aug. 21st, two on Terne, Ludlow; Sept. 5th, young one shot on the Teme. *La Touche.* Sept. 3rd, one seen Craven Arms.

Limosa lapponica (Bar-tailed Godwit). *E. H. Potts.* Sept 19th, Three shot out of flock flying high over Black Hill, Clun.

Numenius arquata (Curlew). *Thomas.* June 2nd, nest four hardsat eggs, Holywell, on sand-dunes within ¼ mile of shore.

Sterna hirundo (Common Tern). *Thomas.* Five nests, among Lesser Terns, Point of Air.

S. albifrons (Lesser Tern). *Hamilton.* July 3rd, Returned to old breeding place on the shingle on the Morfa, Conway, whence they were scared by the soldiers in adjoining camp. About twelve pairs hatched off broods. *Thomas.* Two groups, each about twenty nests, Point of Air.

Larus marinus (Great Black-backed Gull) ? *Potts.* Sept. 17th. One probably this species, circling upwards in evening till nearly invisible, when it moved off rather rapidly northwards, Broseley.

L. ridibundus (Black-headed Gull). *Forrest.* Nov. 17th, one on Severn, Shrewsbury. *Brown.* Increasing on the Tern about Bucknell.

L. argentatus (Herring Gull). *Mountford.* April 5th, following plough Churchstoke. *Pitt.* April 15th, and again on 28th, six passed over Bridgnorth going N.

Stercorarius parasiticus (Richardson's Skua). *R. W. Jones.* Sept. 19th, fourty-four seen off Great Orme's Head. *T. A. Coward.* Common Liverpool Bay.

S. longicaudus (Long-tailed Skua). *Hamilton.* Oct. 19th, 1918. Adult found dead on shore, Deganwy.

Uria troille (Guillemot). *Sergeantson.* June. One caught exhausted on Lily Pond, Acton Burnell.

REPTILES.

Anguis fragilis (Blindworm). *Elliott.* April 2nd, first seen, Dowles.

Tropidonotus natrix (Grass Snake). *Mountford.* Nov. 26th, seen Churchstoke.

AMPHIBIANS.

Bufo vulgaris (Toad). *Forrest.* April 17th. Hundreds, Llandrindod.

B. calamita (Natterjack). *Mills.* Found on Jubilee Mountain near Bangor—new locality N. Wales.

Rana temporaria (Frog). *Elliott.* March 8th, in chorus Dowles.

ENTOMOLOGY.

It is to be regretted that there is no great improvement in the number of records sent in for Entomology during the past season. A few, from the faithful, are to hand, but in a Society of so many members we should naturally look for greater interest and some new enthusiasts among the younger members who would be able to continue the work that has been so successfully carried out in the past, especially by Mr. Potts, Mr. Melvill and the Messrs. H. and M Pendlebury.

With one exception and that a welcome one by Mr. A. J. Barnes, the only records received are from Mr. Melvill, Mr. Potts, Mr. Forrest, Dr. Sankey, Mr. Elliott and Mr. Ingrams.

As regards variations in different species observed for last season the Green Hair Streak (Thecla rubi) appears to have been plentiful for the first time at Dowlas, and the small Pearl-bordered Fritillary generally, whereas, the Comma was unusually scarce considering its great abundance in 1917 & 1918.

We must accord a welcome to Mr. A. J. Barnes who is an enthusiast. His branch, the Coleoptera, has been hitherto much neglected by members of the Club.

The list of Coleoptera compiled by the Rev. Canon Fowler,M.A., F.E.S., for the Victorian County History of Shropshire records 600, species.

To illustrate how little the County has been really worked, it may be mentioned that Mr. Tomlin added no less than 46 new records from his captures in the grounds of Meole Brace Hall alone—when staying with Mr. Melvill on two occasions in the Summer of 1917 & 1918.

A list of 134 species has been compilled, all additions to the County List.

Many large Mosquitoes were noticed late last Autumn by Mr. Forrest at Bayston Hill.

The promised list of Diptera is not yet ready. It will be proceeded with as soon as possible.

W. S. INGRAMS

LEPIDOPTERA.

BUTTERFLIES.

ANTHOCARIS CARDAMINES (Orange Tip). Central spot on forewings nearly obliterated. Meole Hall Shrubberies, May. *Melvill.*

GONOPTERYX RHAMNI (Brimstone). Sept. 11th. One in garden, Benthall House. *Potts.*

PIERIS BRASSICÆ (Large White). April 18th. *Ingrams.*

ARGYNNIS SELENE (Small Pearl-bordered Fritillary). A few in the valleys, near Clunton, 23rd May. *Potts.* May 18th, Dowlas. *Elliott.* Boreatton Park. *Sankey.* Haughmond, June 7th. *Ingrams.*

A. EUPHROSYNE (Pearl-bordered Fritillary). June 7th, Haughmond. *Ingrams.* Most abundant on hill sides, near Clunton, May 23rd. *Potts.* Kitchen Garden, Meole Brace Hall, June. *Melvill.*

A. ADIPPE (High Brown Fritillary). Haughmond, June 21st. *Ingrams.*

MELITÆA ARTEMIS (Greasy Fritillary). Bomere, Several Specimens, June 7th. *Ingrams.*

VANESSA C-ALBUM (Comma). Not one observed this year, in contra distinction to the many in 1917-18, at Meole and Shrewsbury district generally. *Melvill.* Madeley Wood, Specimens, Aug. 13th and September 6th. *Potts.*

V. ATALANTA (Red Admiral). Newly emerged in garden, October 17th Kingsland. *Ingrams.*

V. CARDUI (Painted Lady). Larvæ, Barrow, on large ploughed field June 15th. *Potts.*

PARARGE EGERIA (Speckled Wood). Succession of small broods in garden etc., Benthall, May, June, July and September. *Potts.* A few in East end of Soudley Wood, near Clunton, May 23rd. *Potts.*

EPINEPHELE TITHONUS (Small Meadow Brown). Bomere Pool, August. *Melvill.*

CŒNONYMPHA PAMPHILUS (Small Heath). Two of variety Lyllus, with dusky border to wings, Church Stretton, July. *Melvill.*

THECLA RUBI (Green Hairstreak). Two—First ever seen at Dowlas. *Elliott.* May 23rd, abundant locally on hill sides near the Cwm, Clunton. *Potts.*

T. W-ALBUM (White-Letter Hairstreak). Several at Madeley Wood August 9th and 13th. *Potts.*

POLYOMMATUS PHLŒAS (Small Copper). *Var.* Cœruleopunctata. This handsome variety caught in herbaceous border, Meole Hall, July. The hind wings have a row of high metallic blue spots. *Melvill.* A few in garden, Kingsland, August. *Ingrams.*

LYCÆNA ARGIOLUS (Holly Blue). Common in early and later broods among Hollies, Garden etc., Meole Brace. *Melvill.* Several in Garden May 2nd. *Ingrams.*

MOTHS.

SMERINTHUS OCELLATUS (Eyed Hawk). June 2nd, from pupa found at Benthall. *Potts.*

CHŒROCAMPA PORCELLUS (Small Elephant Hawk). Several Benthall, June 19th. *Potts.*

C. ELPENOR (Great Elephant Hawk). Benthall, June 21st. *Potts.*

MACROGLOSSA STELLATARUM (Humming Bird Hawk). June 14th, 15th, 22nd and October 3rd, Benthall. *Potts.* Kingsland, June 15th. *Ingrams.*

ZYGÆNA TRIFOLII (Five Spotted Burnet). Tickwood, Benthall. *Melvill.*

ZENZERA COSSUS LIGNIPERDA (Goat Moth). Pupa Kingsland. *Ponsonby.*

SPILOSOMA FULIGINOSA (Ruby Tiger). Disabled specimen on road, near Broseley. June 18th. *Potts.*

NOTODONTIDÆ (Prominent). Larvae Bomere, June 7th. *Ingrams.*

N. BICOLORIA (White Prominent). At light, Meole Hall. *Melvill.*

PHALERA BUCEPHALA (Buff Tip). A pair, Kingsland, June 9th. *Ingrams.*

LUECANIA PALLENS (Common Wainscot) Nobold. *Melvill.*

NONAGRIA (TYPHÆ) (Bullrush wainscot). Bred from stems of Typhæ latifolia, Rea Brook,. Nearly every stem, when cut, revealed a larva, but difficult to rear, August. *Melvill.*

NEURONIA POPULARIS (Feathered Gothic). Unusually fine examples all at light, in August, much superior to usual examples in past years. *Melvill.*

POLIA CHI (The Chi). At rest, on Elm trunks, Meole Hall. *Melvill.*

GONOPTERA LIBATRIX (The Herald). April 1st, Kingsland. *Ingrams.*

CUCULLIA VERBASCI (The Mullien Shark). Larvae, June, Benthall. *Potts.*

PLUSIA MONETA (The New Plusia). June, Larvae abundant and insects taken, Benthall. *Potts.*

PHIGALIA PEDARIA (Pale Brindled Beauty). At rest, newly emerged, Kingsland. *Ingrams.*

COLEOPTERA.

The following 134 species are all additions to the County List.

ABBREVIATIONS.

(T)—Recorded by J. R. le B. Tomlin, M.A., F.E.S.
(B)—Recorded by A. J. Barnes.

NOTIOPHILUS BIGUTTATUS, *F.* Common. (B).
Do. RUFIPES, *Curt.* Haughmond, May. (B).
LEISTUS FULVIBARBIS, *Dj.* Bomere, May. (T).
ACUPALPUS EXIGUUS, *Dj. Var.*, LURIDUS, *Dj.* Bomere, May. (T)
Do. MERIDIANUS, *L.* Shrewsbury, May. (B).
HARPALUS ÆNEUS, *F.* Bomere, May. (T).
CALATHUS MELANOCEPHALUS, *L.* Common.
AMPHIGYNUS PICEUS, *Marsh.* Haughmond, April. (B).
ANCHOMENUS DORSALIS, *Mill.* Bomere, May. (T).
BEMBIDIUM GUTTULA, *F.* Meole. (T).
HALIPUS FLUVIATILIS, *Aub.* Uffington, July. (B).
NOTERUS SPARSUS, *Marsh.* Bomere, May. (T).
LACCOPHILUS OBSCURUS, *Pz.* Bomere, May. (T).
ANACÆNA LIMBATA, *F.* Bomere, May. (T).
CERCYON FLAVIPES, *F.* Bomere, May. (T).
ALEOCHARA CUNICULORUM, *Kr.* Bomere, May. (T).
PHLŒOPORA REPTANS, *Gr.* Bomere, May. (T).
HOMALOTA VICINA, *Steph.* Meole. (T).
Do. CIRCELLARIS, *Gr.* Pulley Com., October. (T).
Do. CUSPIDATA, *Er.* Bomere, under bark, May. (T).
Do. ANALIS, *Gr.* Meole and Bomere, May. (T).
Do. TRINOTATA, *Kr.* Pulley Com., October. (T).
Do. NIGRA, *Kr.* Pulley Com., October. (T).
Do. SORDIDA, *Marsh.* Pulley Com., October. (T).
Do. FUNGI, *Gr.* Meole. (T).
OLIGOTA PUNCTULATA, *Heer.* PulleyCom., October. (T).
MYLLŒNA MINUTA, *Gr.* Bomere, May. (T).
HYPOCYPHIS LONGICORNIS, *Pk.* Westbury, in moss, March. (B).
Do. LŒVIUSCULUS, *Man.* Bomere, May. (T).

TACHYPORUS HUMEROSUS, *Er.* Pulley Com., October. (T).
TACHINUS MARGINELLUS, *F.* Haughmond, April. (B).
QUEDIUS MESOMELINUS, *Marsh.* Newport, July. (B).
Do. TRISTIS, *Gr.* Bomere, May. (T). Shrewsbury, Sept. (B)
Do. BOOPS, *Gr.* Church Stretton, under stone, April. (B).
CREOPHILUS MAXILLOSUS, *L.* Caught in a Shrewsbury Office by Mr. W. E. Cox, May, 1919.
PHILONTHUS ÆNEUS, *Ross.* Newport, July. (B).
Do. POLITUS, *F.* Grinshill, August. Haughmond, Sept. (B)
Do. VARIUS, *Gyll.* Grinshill, August. (B).
Do. FIMETARIUS, *Gr.* Bomere, May. (T).
ACTOBIUS CINERASCENS, *Gr.* Bomere, May. (T).
XANTHOLINUS PUNCTULATUS, *Pk.* Pulley Com., October. (T).
Do. LINEARIS, *Ol.* Pulley Com., October. (T)
Do. LONGIVENTRIS, *Heer.* Craven Arms, April. (B).
LEPTACINUS LINEARIS, *Gr.* Pulley Com., October. (T).
LATHROBIUM BRUNNIPES, *F.* Bomere, May. (T).
MEDON PROPINQUUS, *Bris.* Meole. (T).
PŒDERUS LITTORALIS, *Gr.* Bomere, May. (T).
STENUS SPECULATOR, *Lac.* Meole. (T).
Do. BRUNNIPES, *Steph* Meole. (T).
OXYTELUS RUGOSUS, *F.* Bomere, May. (T).
Do. SCULPTURATUS, *Gr.* Bomere; May. (T).
Do. TETACARINATUS, *Block.* Meole.. (T).
SYNTOMIUM ÆNEUM, *Mull.* North Shropshire in moss, December (B)
LESTEVA LONGELYTRATA, *Goez.* Meole. (T).
PHILORHINUM SORDIDUM, *Steph.* Meole. (T).
HOMALIUM RIVULARE, *Pk.* Meole. (T).
Do. RUFIPES, *Foure.* Meole. (T).
Do. VILE, *Er.* Bomere, May. (T).
Do. IOPTERUM, *Steph.* Meole. (T).
ANTHOBIUM MINUTUM, *F.* Meole, in damp meadow. (T).
Do. SORBI, *Gyll.* Bomere, May. (T). D
PROTEINUS BRACHYPTERUS, *F.* Meole. (T).
MEGARTHRUS DENTICOLLIS, *Beck* Common, Meole. (T).
PHLŒOBIUM CLYPEATUM, *Mull.* In moss Pulley Com., October. (T).
PROGNATHA QUADRICORNIS, *Kirb.* Craven Arms, April. (B).
CALYPTOMERUS DUBIUS, *Marsh.* Pulley Com., October. (T).
LIODES ORBICULARIS, *Hbst.* Haughmond, May. (B).
SILPHA RUGOSA, *L.* Haughmond, April. (B).
CHOLEVA NIGRICANS, *Spence.* Shrewsbury, April. (B).
ADALIA BIPUNCTATA, *L.* Meole. (T).
COCCINELLA 10-PUNCTATA, *L.* Bomere, May. (T).

ENDOMYCHUS COCCINEUS. Haughmond, under bark, July. (B).
BRACHYPTERUS PUBESCENS, *Er.* Bomere, May. (T).
MELIGETHES ÆNEUS, *F.* Meole. (T).
Do. PICIPES, *Stm.*. Meole. (T).
RHIZOPHAGUS BIPUSTULATUS, *F.* Pulley Com., October. (T).
Do. DISPAR, *Pk.* Shrewsbury under bark, March. (B).
ENICMUS MINUTUS, *L.* Meole. (T).
Do. TRANSVERSUS, *Ol.* Meole. (T).
BYTURUS TOMENTOSUS, *F.* Haughmond, May. (B).
CRYPTOPHAGUS DENTATUS, *Hbst.* Bomere, May. (T).
MICRAMBE VINI, *Px.* Bomere, May. (T).
ATOMARIA LINEARIS, *Steph.* Pulley Com., October. (T).
Do. PUSILLA, *Pk.* Meole. (T).
Do. RUFICORNIS, *Marsh.* Meole. (T).
EPHISTEMUS GYRINOIDES, *Marsh.* Pulley Com., October. (T).
MELASIS BUPRESTOIDES, *L.* On felled Beech, Haughmond, May. (B).
ATHOUS VITTATUS, *F.* Bomere, May. (T).
AGRIOTES SOBRINUS, *Kies.* Meole. (T).
CAMPYLUS LINEARIS, *L.* Bomere, May. (T).
CYPHON PALLIDULUS, *Boh.* Meole. (T).
TELEPHORUS NIGRICANS, *Mull.* Bomere, May. (T).
RHAGONYCHA LIMBATA, *Th.* Meole. (T).
Do. PALLIDA, *F.* Bomere, May. (T).
PTILINUS PECTINICORNIS, *L.* Haughmond, July. (B).
GASTROIDEA POLYGONI, *L.* Wem, July. (B).
LOCHMÆA CRATŒGI, *Forst.* Meole. (T).
LONGITARSUS LURIDUS, *Scop.* Meole. (T).
PHYLLOTRETA VITTULA, *Redt.* Meole. (T).
Do. UNDULATA, *Kuts.* Meole. (T).
HIPPURIPHILA MODEERI, *L.* Meole. (T).
HELOPS STRIATUS, *Fourc.* Haughmond. (B).
ANASPIS FRONTALIS, *L.* Meole. (T).
Do. PULICARIA, *Cosa.* Meole. (T).
ANASPIS RUFICOLLIS, *F.* Meole. (T).
Do. MACULATA, *Fourc.* Meole. (T).
DEPORAIIS BETULÆ, *L.* Bomere, May. (T).
APION ULICIS, *Forst.* Bomere, May. (T).
Do. DICHROUM, *Bed.* Meole. (T).
Do. NIGRITARSE, *Kirb.* Meole. (T).
Do. ÆNEUM, *F.* Pulley Com., October. (T).
Do. RADIOLUS, *Kirb.* Bomere, May. Pulley Com., October. (T). (both this species and *æneum* on *Malva sqtocotris*).

Do. PISI, *F.* Bomere, May. (T).

Do. ŒTHIOPS, *Hbst.* Bomere, May. (T).

Do. LOTI, *Kirb.* Meole. (T).

OTIORHYNCHUS OVATUS, *L.* Pulley Com., October. (T).

EXOMIAS PELLUCIDUS, *Boh.* This rare little weevil was found on blue speedwell (*Veronica chaemadrys*) at Meole Brace Hall by Mr. Tomlin. (Cf. Entom, Monthly Mag., 1917, p. 234).

PHYLLOBIUS PYRE, *L.* Meole. (T).

Do. ARGENTATUS, *L.* Bomere, May. (T).

Do. POMONÆ, *Ol.* Meole. (T).

SITONES CRINITUS, *Hbst.* Bomere, May. (T).

SITONES SUTURALIS, *Steph.* Bomere, May. (T).

Do. SULCIFRONS, *Thunb.* Meole. (T).

ANOPLUS PLANTARIS, *Næz.* Bomere, May. (T).

CIONUS SCROPHULARIÆ, *L.* Meole. (T).

Do. BLATTARIÆ, *L.* Meole. (T).

CEUTHORHYNCHUS ASSIMILIS, *Pk.* Bomere, May. (T).

Do. QUADRIDENS, *Pz.* Bomere, May. (T).

Do. PLEUROSTIGMA, *Marsh.* Bomere, May. (T).

Do. LITURA, *F.* Pulley Com., on Carduus arvensis. (T)

CEUTHORHYNCHIDIUS FLORALIS, *Pk.* Bomere, May. (T).

Do. TROGLODYTES, *F.* Bomere, May. (T).

RHINONCUS PERICARPIUS, *L.* Meole. (T).

Do. PERPENDICULARIS, *Reich.* Meole. (T).

Handbook Vert Fauna North Wales.

ADDENDA.

29. Long-tailed Tit. Mr. G. R. Humphreys found nest on Ty Mawr farm, Llanfair, P.G.: 4 eggs 18th April, 1903; six eggs 24th.

39 DOLPHIN. Mr. G. H. Caton Haigh reports one 6ft. 1 inch long washed up dead but quite fresh at Harlech, 22nd August, 1917.

40. BOTTLE-NOSED DOLPHIN. Mr. Haigh reports a herd of eight came up the Traeth Mawr, 8th August, 1919: not uncommon in this bay.

87. Woodlark. In September 1919, Major W. M. Congreve found Woodlarks in three localities near Newtown, Montgomeryshire

103B. Little Owl. On 25th October, 1919, a Little Owl was shot at Llanllugan, near Newtown, Montgomeryshire.

107. Buzzard, Mr. F. H. Mills reports a male shot at Amlwch in September, 1919: rare in Anglesey..

160. Red-breasted Merganser. Four males and five females, Penrhos, near Holyhead, seen 27th April, 1913, by Messrs. Humphreys and Edwards.

205. RUFF. Mr. G. H. Caton Haigh saw a Reeve with a flock of Stints on Minfford Marsh, 19th August, 1908.

210. SPOTTED REDSHANK. Mr. Haigh saw a young one on the mup close to Portmadoc embankment, 16th August, 1912.Wf

231A. Great Skua. In September, 1913, Mr. A. Hamilton saw one in Llandudno Bay.

233. Richardson's Skua. In October 1919, Mr. R. W. Jones, saw 44 off the Great Orme's Head—an extraordinary number.

234. Long-tailed Skua. On 19th October, 1918, Mr. A. Hamilton, found an adult on the shore at Deganwy. It had been dead some time.

239. Puffin. About 20 pairs nesting on Skerries in June, 1911, (W. Glynne Edwards.)

P. 80. 3. Natterjack. Found on Jubilee Mountain near Bangor, by Mr. F. H. Mills.

N.B. This page can be torn out and inserted in the Handbook.

METEOROLOGY.

Reports of barometer movements will be found in the notes. The letter *C* signifies cyclonic-conditions, *i.e.*, when the readings are below about 29,600; Anti-cyclonic by the letter *A.*, when the mercury gives higher readings. *M.O.* = Meteorological Office. Numbers in parentheses refer to Observing Stations.

MONTHLY NOTES.

JANUARY—

The year opened with stormy weather culminating with a gale on the 9th. The middle of January was mild thrushes were singing on the 11th. Snow fell on 27th and after and remained on the ground till Feburary 13th. There was a frost but not keen on most nights and rain fell most days.

1st—18th, C; 18th—19th, A; 19th—21st, C; 21st—25th, A; 25th—28th, C; 28th—31st, A.

FEBRUARY—

About the 10th low temperatures were recorded but no ice strong enough for skating, another winter passing with no chance for this Sport. There was heavy snow on 16th and 17th, which quickly melted, fogs following.

1st A; 2nd—6th, C; 6th—12th, A; 12th—28th, C.

MARCH—

The first part sunless. Snow flakes were flying about on most days. The 11th and 12th, brought very heavy rain which brought the average up making it the wettest month of the year. On 26th at (26) hail "as big as peas" The snow on 26th and 27th, at Bettwys drifted to 4 feet deep. There were gales on 9th and 20th.

1st—14th, C; 15th—18th, A; 19th—31st, C.

APRIL—

Most of April was mild and warm but at the beginning and end cold weather was experienced. On the 9th a heavy hail storm and on 27th a heavy snow 2 inches deep. Swallows were seen on 25th and the Cuckoo heard on the 26th.

1st—3rd, C; 3rd—4th, A; 5th—16th, C; 17th—23rd, A; 24th—30th, C.

MAY—

Fine, and warm above the average, no frost and very little rain, this was badly needed for the grass put up for hay. There was bright sun and blue sky from the 22nd to 31st, (26). Thunder and lightning on 15th.

1st—7th, C; 7th—8th, A; 8th—12th, C; 12th—13th, A; 14th—19th, C; 19th—29th, A; 29th—31st, C.

JUNE—

Temperature fairly high, not much rain. A heavy shower on 12th, windy about the 24th. A thunderstorm recorded on 12th at (36). Hay was being carried at the end of the month.

1st—11th, A; 12th—13th, C; 13th—19th, A; 20th—21st, C; 22nd—24th, A; 25th, C; 26th—28th, A; 29th—30th, C.

JULY—

The month opened with thunderstorms which ushered in a spell of fine hot weather the temperature declined as the month wore on. From about the 21st the longest stretch of rainless days for the year commenced, finishing with a thunderstorm on August 16th.

1st—6th, C; 6th—10th, A; 11th—12th, C; 13th—16th, A; 17th—20th, C; 21st, A; 22nd—23rd, C; 24th—31st, A.

AUGUST—

The commencement fine and warm, quite hot about the 11th. A magnetic storm passed over the county on the

12th (26). The end of August was wet and cold a thunderstorm on the 28th.

1st—3rd, A; 3rd—5th, C; 6th—15th, A; 16th, C; 16th—17th, A; 18th—20th, C; 21st—25th, A; 25th—31st, C.

SEPTEMBER—

Quite a dry month, affording grand opportunities for harvest work of all kinds. Very early snow! fell on the 19th on which day a hailstorm as also on the 20th at (36). The last part was cold an especially early frost on the 29th (26) at (13) 27° minimum in the screen and 21·2 on the grass was registered.

1st—6th, C; 6th—11th, A; 12th, C; 12th—18th, A; 18th—27th, C; 28th—29th, A; 30th, C.

OCTOBER—

There were heavy fogs at the opening and heavy rain from the 23rd, but the rest of the month was fairly dry. The thermometer was below or at 32° on 8 days (26). Lightning seen at (13) on the 13th.

1st—2nd, C; 3rd—10th, A; 10th—15th, C; 16th—23rd, A; 23rd—24th, C; 25th—27th, A; 28th—30th, C; 31st, A.

NOVEMBER—

No great weight of rain fell on any day during this month. The middle was marked by early and severe frosts, from the 8th to the 15th, we were treated successively to fogs, hail, ice and snow. "Sharp frosts in November foretell a mild Winter" (26).

1st—2nd, A; 3rd—31st, C.

DECEMBER—

A really wet month very unpleasant, during which the roads got into an abominable state. The weather was mild. Thunder heard on 15th, at (36).

1st—17th, C; 18th—20th, A; 20th—31st, C.

FARM CROPS.

HAY. Thin, light, where 4 loads were expected only 2 lugged.

CORN. Good but straw moderate, it was well got.

ROOTS. Poor, failed in some districts necessitating ploughing up and the sowing of mangolds. Generally the report was " good " want of moisture in early Summer affected the crops.

GARDEN CROPS.

Generally good, vegetables and fruit abundant especially apples and pears, which were of excellent flavour, and kept well, now in July 1920 the writer is eating apples which are still very good. Plums fair, Damsons plentiful (34) " good cultivation conserving moisture " flowers were not so good.

REMARKS ON THE YEAR.

Considering the dry spring and summer a dry good year, (3). (23) from May 1st to end of November less than 13 inches of rain fell. (26) a bountiful year weather favourable for farm and garden throughout. (29) notices that autumn was too wet and cold for ripening wood. (39) rain below average a lovely year till the late autumn.

EXTREMES, ETC., FOR THE YEAR, 1919.

		Inches.
Average rainfall for Shropshire		28·04
,, ,, ,,	1918	27·73
Wettest month ,,	March average ...	5·00
Driest ,, ,,	May	·85
Station with heaviest rainfall.	Bettwys-y-Crwyn ...	40·01
,, ,, next heaviest ,,	Church Stretton ...	33·88
,, ,, lightest ,,	Craven Arms ...	25·42

		number
Greatest number of rainy days	Bishops Castle ...	214
Least ,, ,, ,,	Ludlow	147
Greatest number for 1 month.	Oswestry, Bishops Castle (December) ...	28
Least ,, ,, ,,	Aldenham, Edgmond (May) ...	9
Snow	... ...	23
Thunderstorms ...	... ...	5

TEMPERATURE.

		Degrees.
Highest—August.	Worfield	94
Lowest—February.	Highfield, Shrewsbury ...	11

BAROMETER

		Inches.
Highest—October.	Wistanstow	30·350
Lowest—January	,, ...	28·160

Full records received from (12) Mr. Penson; (23) W. Downes Hall, Esq.; (26) Mr. Haswell; (36) J. W. Nowell, Esq.; (39) Mr. E. Turner.

We are sorry to record the death of Mr. F. W. Haswell of Shifnal Schools. He always sent a complete report.

TABLE No 1.

NAMES OF OBSERVERS AND STATIONS.

NO.	ALTITUDE.	STATION.	OBSERVER.	LATITUDE. ° ′ ″	LONGITUDE ° ′ ″
(1)	1400	Bettws-y-Crwyn	Rev. I. Watson	52 24 20	3 6 10
(2)	795	Woolstaston Rectory	Rev. Alan Clover	52 34 40	2 48 10
(3)	720	Bishops Castle	E. Griffiths, Esq.	52 30 0	3 0 0
(4)	700	Preen Manor	Mr. J. Hopkins	52 34 30	2 40 20
(5)	700	Church Stretton	H. Constantine, Esq.	52 32 10	2 47 50
(6)	698	Oswestry	G. W. Lacey, Esq., C.E.	52 48 0	3 3 0
(7)	650	Church Stretton	Mr. G. Dunn	52 32 10	2 48 10
(8)	600	More Rectory	Rev. Ridley Relton	52 32 50	2 58 10
(9)	596	Bishops Castle	Preb. C. E. Warner	52 29 20	2 59 50
(10)	582	Church Stretton	Mr. C. J. Marsh	52 30 49	2 49 33
(11)	509	Bitterley Rectory	Preb. J. R. Burton	52 23 40	2 38 0
(12)	492	Broseley (Willey)	The Lord Forester per Mr. J. Penson	52 35 15	2 29 30
(13)	486	Wistanstow Rectory	Rev. W. M. D. La Touche	52 27 52	2 50 4
(14)	460	Bridgnorth (Coton)	E. M. Wakeman, Esq.	52 28 20	2 20 0
(15)	450	Oswestry (Council School)	Mr. E. Compton	52 48 0	3 3 0
(16)	430	Aldenham Park	Mr. Thomas Canning	52 33 10	2 29 12

TABLE No. 1—Continued.

NO.	ALTITUDE.	STATION.	OBSERVER.	LATITUDE. ° ′ ″	LONGITUDE. ° ′ ″
(17)	406	Craven Arms (Newington)	R. E. Sergeantson, Esq.	52 25 0	2 50 0
(18)	368	Ellesmere	H. C. Jones, Esq.	52 54 30	2 53 0
(19)	351	Knighton (Reservoir)	H. C. Jones, Esq.	52 50 52	2 23 20
(20)	350	Dorrington (Netley)	Miss Hope Edwardes	52 34 0	2 46 40
(21)	340	Ellesmere	Miss A. M. Ashton	52 54 40	2 53 40
(22)	320	Bromfield	T. Brayshaw, Esq.	52 23 10	2 45 40
(23)	315	Ludlow (Ashford)	W. Downes Hall, Esq.,	52 20 0	2 42 45
(24)	300	Bromfield (Oakley)	The Earl of Plymouth per Mr. J. R. Frances.	52 22 50	2 45 20
(25)	280	Newport (Coton)	Col., R. Leeke	52 46 40	2 23 30
(26)	279	Shifnal (The Schools)	(The late) Mr. F. W. Haswell	53 40 11	2 31 30
(27)	271	Whitchurch	Urban District Council	52 56 30	2 45 0
(28)	250	Shrewsbury	T. M. Howells, Esq.	52 42 20	2 44 20
(29)	250	Chetwynd Park (Gardens)	Mr. N. Sherwood	52 47 20	2 23 15
(30)	240	Chetwynd Park	Mr. Burton Burrough	52 47 20	2 23 20
(31)	238	Fitz Rectory	Rev. W. Brewster	52 45 20	2 49 10
(32)	235	Shrewsbury (Radbrook)	D. M. Macpherson, Esq.	52 42 0	2 46 45

TABLE No. 2—Continued.

NO.	ALTITUDE. ′	STATION.	OBSERVER.	LATITUDE. ° ′ ″	LONGITUDE. ° ′ ″
(33)	229	Shrewsbury (St. Michaels Sch.)	Mr. W. H. Barclay	52 42 43	2 44 40
(34)	220	Edgmond	W. Bevan, Esq.	52 45 0	2 25 0
(35)	220	Newport (Harper A. Coll.)	P. Hedworth Foulkes, Esq.	52 46 40	2 23 30
(36)	208	Roden	J. W. Nowell, Esq.	52 44 30	2 37 40
(37)	171	Shrewsbury (Abbey House)	Miss F. H. Rouse Boughton	52 42 18	2 44 30
(38)	169	Shrewsbury (Underdale Rd.)	R. C. Sikes, Esq, C.E.	52 42 18	2 44 30
(39)	140	Worfield (The Schools)	Mr. F. Turner	52 33 20	2 21 10

TABLE No. 2.

MONTHLY RAINFALL RECORD IN INCHES.

		JAN.	FEB.	MAR.	APL.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTAL.
(1)	Bettws-y-Crwyn ...	5·41	2·15	5·65	2·30	0·60	2·08	2·15	3·67	2·48	3·78	2·50	7·24	40·01
(2)	Woolaston ...	3·47	2·06	5·29	1·73	1·30	1·04	2·72*	2·66*	2·12*	3·25	1·49	4·69	31·82
(3)	Bishops Castle ...	3·42	2·43	5·12	1·89	0·56	1·03	2·69	2·49	1·82	2·63	1·70	4·54	30·32
(4)	Preen Manor ...	2·96	3·63	4·32	1·93	1·00	0·84	2·96	2·73	2·12	3·05	1·69	3·30	30·53
(5)	Church Stretton ...	3·46	3·25	5·45	2·13	1·14	0·88	2·53	2·76	2·43	3·27	1·72	4·86	33·88
(6)	Oswestry (Reservoir) ...	2·93	3·07	5·24	2·19	1·78	0·93	1·23	2·74	1·61	2·62	1·65	3·58	29·57
(8)	More Rectory ...	3·16	2·22	4·67	1·76	0·41	0·91	2·33	2·10	1·81	2·64	1·30	3·69	27·00
(9)	Bishops Castle ...	3·54	2·68	5·57	2·08	0·55	1·01	3·14	2·54	1·68	2·63	1·81	4·96	32·19
(10)	Church Stretton ...	3·45	2·33	4·79	2·18	0·76	0·86	2·25	2·51	1·83	3·29	1·58	4·76	30·59
(11)	Bitterley ...	3·01	2·63	5·01	1·79	1·00	0·96	2·33	2·87	1·84	2·29	0·79	3·16	27·68
(12)	Broseley ...	2·30	2·79	5·03	2·26	0·94	1·04	3·03	2·78	2·12	3·42	1·19	3·12	30·02
(13)	Wistanstow ...	2·89	2·40	4·65	1·84	0·48	0·70	2·40	2·20	1·37	2·45	1·11	3·95	26·44
(14)	Bridgnorth (Coton) ...	3·14	2·67	5·17	2·00	0·89	1·02	2·77	3·39	1·45	2·52	1·30	3·15	29·47
(15)	Oswestry ...	3·22	2·99	5·30	2·26	1·44	0·68	0·85	2·88	1·61	3·04	1·81	4·77	30·85
(16)	Aldenham ...	2·76	2·60	4·86	1·96	0·56	0·87	2·29	2·36	1·63	2·79	1·14	3·41	27·23

TABLE No. 2—(continued).

		JAN.	FEB.	MAR.	APL.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTAL.
(17)	Craven Arms ...	2·63	2·68	4·50	1·70	0·56	0·54	2·17	2·78	1·48	1·91	0·91	3·56	25·42
(18)	Ellesmere (Reservoir) ...	2·42	2·60	5·36	1·83	0·81	1.14	1.26	2·62	1·98	3·22	1·06	4·15	28·45
(19)	Knighton (Shrop.) ...	2·44	1·94	5·22	2·01	0·83	1.52	2.05	2·43	2·53	3·74	1·27	4·29	30·27
(20)	Dorrington ...	3·19	3·18	5·73	1·94	1·10	1·07	2·53	3·10	2·87	2·96	1·57	3·77	33·01
(21)	Ellesmere. ...	2·41	2·21	4·97	1·67	0·66	1·01	1·02	2·65	2·01	2·82	0·96	3·58	25·97
(22)	Bromfield ...	3·32	2·52	5·41	1·91	0·51	0·74	2·50	3·01	1·84	2·01	1·24	4·03	29·04
(23)	Ludlow ...	3·38	3·02	6·30	2·05	0·68	0·68	2·68	3·53	1·87	2·16	1·27	3·82	31·44
(24)	Bromfield ...	3·40	2·68	5·26	1·88	0·46	0·60	2·31	2·79	1·97	2·00	1·41	4·05	28·81
(25)	Newport ...	2·44	2·54	5·28	1·80	1·00	1·57	2·62	2·70	2·16	3·55	1·68	3·67	31·01
(26)	Shifnal ...	2·45	2·34	4·73	2·04	0·71	1·31	2·44	2·25	2·03	3·44	1·37	3·61	28·72
(27)	Whitchurch ...	1·39	2·02	5·46	2·46	1·20	1·31	1·74	2·65	2·82	3·43	1·36	4·12	29·96
(28)	Shrewsbury ...	2·31	2·53	4·54	1·64	0·94	1·18	1·98	2·67	2·39	3·50	1·24	3·11	28·03
(29)	Chetwynd ...	2·56	2·01	4·64	1·88	0·93	1·53	2·03	2·37	2·42	3·56	1·47	3·53	28·93
(30)	Chetwynd ...	2·50	1·94	4·56	1·85	0·97	1·54	2·06	2·37	2·30	3·59	1·50	3·74	28·92
(31)	Fitz ...	2·12	2·99	4·87	1·64	0·84	1·02	1·68	2·59	1·88	3·17	1·34*	3·36*	27·50
(32)	Radbrook (Shrewsbury)	2·22	2·60	4·81	1·56	0·90	0·93	1.93	2·38	2·04	3·30	1·07	2·81	26·55
(33)	Shrewsbury ...	2·50	3·23	5·02	1·24	1·06	0·98	1·90	2·44*	2·07*	1·88	2·63	2·30	27·25
(34)	Edgmond ...	2·24	2·12	4·65	1·60	0·82	1·20	2·32	2·36	2·06	3·08	1·51	3·10	27·06

TABLE No. 2—(continued).

		JAN.	FEB.	MAR.	APL.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTAL.
(35)	Newport H. A. Coll. ...	2·24	2·04	4·28	1·45	0·68	1·15	2·09	2·20	2·25	3·15	1·49	3·12	26·14
(36)	Roden ...	1·97	2·24	4·49	1·86	0·79	1·31	1·74	2·13	1·99	3·11	0·97	3·26	25·86
(37)	Shrewsbury ...	2·30	2·56	4·92	1·57	0·85	1·03	1·98	2·42	2·13	3·57	1·21	3·01	27·55
(38)	Shrewsbury ...	2·12	2·44	4·56	1·41	0·88	0·99	1·83	2·35	2·19	3·56	1·09	2·88	26·30
(39)	Worfield ...	2·36	2·29	4·16	1·67	0·63	0·96	2·32	2·67	1·59	2·64	1·33	3·09	25·71
	Totals	106·03	96·62	189·84	70·96	32·22	40·16	82·85	100·14	76·79	113·02	53·73	143·14	110·550
	Averages	2·79	2·54	5·00	1·89	0·85	1·06	2·18	2·64	2·02	2·97	1·41	3·77	**29·01.**

Average not reckoning Bettws-y-Crwyn **28·04.**

* Approximate.

TABLE No. 3.

GREATEST RAINFALL IN 24 HOURS, WITH DATES.

	Jan.	Day.	Feb.	Day.	Mar.	Day.	Apl.	Day.	May.	Day.	June.	Day.	July.	Day.	Aug.	Day.	Sept.	Day.	Oct.	Day.	Nov.	Day.	Dec.	Day.
(2) Woolstaston ...																			1·15	23	·25	24	.52	1
(3) Bishops Castle	·38	14	·70	17	1·30	11	·40	14	·12	24	·35	12	·72	19	·66	28	·68	13	1·14	23	·29	17	·55	15
(4) Preen Manor ...	·52	1	1·43	17	1·28	19	·48	27	·34	15	·37	12	1·07	19	·73	28	.76	13	1·03	23	·42	27	·37	1
(5) Church Stretton	·48	14	1·08	17	1.08	11	·51	27	·37	15	·36	12	·46	19	·88	28	·87	13	1·18	23	·30	27	·45	5
(6) Oswestry ...	·54	9	·79	17	1·03	11	·56	15	·27	15	·17	12	·23	21	1·18	28	·67	22	·88	23	·24	30	.52	1
(9) Bishops Castle	·43	14	·94	17	1·38	12	·46	27	·12	15	·41	12	1·13	19	·70	28	·45	22	1·11	23	·28	17	.58	5
(10) Church Stretton	·45	14	·60	19	·94	19	·48	14	·27	15	·29	12	·63	4	·73	28	·77	13	1·18	23	·24	24	·53	1
(11 Bitterley ...	·43	15	·78	17	1·10	19	·43	27	·52	15	·26	1	·75	19	·68	25	·46	13	·74	23	·19	30	·33	29
(12) Broseley ...	·30	14	·93	16	1·15	11	·43	27	·25	6	·37	12	1·00	19	·96	28	·75	13	1·23	23	·20	16	·45	22
(13) Wistanstow ...	·41	8	·74	17	1·15	11	·42	27	·11	10&15	.19	12	·79	19	·61	18	·52	13	·78	23	·17	30	·39	5
(14) Bridgnorth ...	45	1	1·06	16	1·40	11	·31	26	·18	25	·26	12	·90	19	1·07	28	·32	13	·75	23	·17	20	·36	29
(15) Oswestry ...	·55	24	·77	11	1·30	20	66	16	1·04	9	·14	15	·29	6	1·10	10	·74	13	1·02	23	·25	18	·58	27
(17) Craven Arms ...	·29	20	·59	18	·89	11	·50	27	·13	10	·15	12	·60	19	·92	28	·59	13	·68	24	·17	17	·44	2
(18) Ellesmere ...	·38	20	·97	17	1·19	11	·41	14	·32	15	·50	13	·30	21	1·07	28	1·03	23	1·05	23	·19	16	·58	1
(19) Knighton ...	·41	14	·61	16	1·30	12	·51	15	·23	6	·50	12	·40	19	·58	28	·94	13	1·36	23	·45	20	1·20	22
(21) Ellesmere ...	·40	20	·82	16	1·67	11	·35	13	·30	16	·44	12	·29	21	1·27	28	1·15	22	·95	23	·25	20	·60	22
(22) Bromfield ...	·40	15	·62	17	1·24	11	·47	27	·15	25	·14	3	·81	19	·58	28	·80	12	·76	23	·19	17	·44	15
(23) Ludlow ...	·55	15	·74	16	1·12	12&19	·56	27	·20	18	·18	19	·77	19	1·20	25	·50	13	·83	23	·22	30	·46	28
(24) Bromfield ...	·38	20	·62	17	1·32	12	·38	14	·12	15	·15	3	·67	19	·62	28	·74	13	·72	23	·24	30	·44	1

TABLE No. 3—(continued).

	Jan.	Day.	Feb.	Day.	Mar.	Day.	Apl.	Day.	May.	Day.	June.	Day.	July.	Day.	Aug.	Day.	Sept.	Day.	Oct.	Day.	Nov.	Day.	Dec.	Day.
(25) Aston Newport	·34	14	·79	16	1·08	19	·42	27	·24	6	·48	12	·82	20	·59	28	·55	13	1·57	23	·45	20	·96	22
(26) Shifnal ...	·37	1	·62	16	1·00	11	·48	15	·23	6	·55	12	·61	19	·65	18	·65	13	1·26	23	·33	20	·75	22
(27) Whitchurch ...	·14	12	·49	19	·96	18	·89	14	·69	6	·34	12	·33	1	1·07	28	1·25	22	1·12	24	·36	20	1·17	22
(28) Shrewsbury ...	·35	14	·82	17	·90	12	·30	14 & 27	15 ·32	14	·45	12	·46	4	·67	28	1·05	13	1·46	23	·29	18	·53	22
(29) Chetwynd ...	·32	15	·58	16	·97	11	·50	15	·22	1	·44	12	·64	19	·59	28	·86	13	1·46	23	·39	20	1·03	22
(30) Chetwynd ...	·40	24	·56	12	·95	18	·49	17	·22	8	·45	15	·71	13	·58	14	·80	10	1·54	23	·41	19	1·03	26
(31) Fitz ...	·30	14	1·02	16	1·22	11	·38	14	·36	15	·34	12	·36	21	·72	28	·64	13	1·29	23				
(32) Radbrook ...	·33	14	·70	17	·90	18	·27	14	·36	15	·34	12	·44	4	·76	28	·90	13	1·58	23	·25	19	·49	22
(34) Edgmond ...	·39	15	·57	10	·74	18	·48	15	·25	6	·44	12	·71	19	·64	18	·69	13	1·45	23	·50	20	·97	22
(35) Newport ...	·38	14	·68	16	1·00	11	·45	15	·17	6	·42	12	·66	19	·61	28	·59	22	1·37	24	·47	21	·99	23
(36) Roden ...	·33	14	·78	16	·96	11	·41	15	·22	15	·72	12	·36	21	·58	28	·95	14	1·32	22	·29	19	·89	22
(37) Shrewsbury ...	·34	14	·80	16	1·14	11	·35	14	·28	15	·42	12	·53	4	·59	28	1·04	13	1·54	23	·29	19	·48	22
(38) Shrewsbury ...	·36	14	·67	16&17	1·07	11	·26	14&15	·30	15	·44	11	·49	4	·60	18	1·06	13	1·60	23	·27	19	·50	22
(39) Worfield ...	·28	7	·54	17	·85	11	·40	27	·23	5	·32	12	·70	19	·56	19	·38	2	·80	23	·18	20	·45	22

TABLE No. 4

RAINY DAYS.

A Rainy Day means a day on which at least ·01 of rain fell.

	JAN.	FEB.	MAR.	APL.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTAL.
(1) Bettwys-y-Crwyn	24	12	19	16	7	14	12	14	14	15	20	25	192
(3) Bishops Castle ...	19	12	20	17	8	13	13	13	13	12	20	22	182
(4) Preen ...	19	9	17	15	8	10	11	12	12	12	18	22	165
(5) Church Stretton	23	14	19	19	10	14	13	11	13	13	23	26	198
(6) Oswestry ...	23	12	23	16	12	17	13	12	15	13	22	28	206
(9) Bishops Castle ...	26	14	21	17	11	14	14	15	17	14	23	28	214
(10) Church Stretton	22	13	16	16	9	10	11	10	11	10	13	23	164
(11) Bitterley ...	18	10	18	18	8	14	12	13	14	12	15	25	177
(12) Broseley ...	20	11	18	16	9	11	12	12	13	13	16	24	175
(13) Wistanstow ...	19	13	19	13	8	11	11	13	11	13	19	24	174
(14) Bridgnorth ...	21	8	17	14	8	11	11	12	10	12	16	22	162
(15) Oswestry ...	24	11	20	16	9	15	6	10	13	12	18	27	181
(16) Aldenham ...	19	10	15	18	6	9	10	9	13	12	9	21	151

TABLE No. 4—(Continued).

	JAN.	FEB.	MAR.	APL.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTAL.
(17) Craven Arms ...	22	11	18	15	10	11	14	12	10	11	18	24	176
(18) Ellesmere ...	19	12	18	17	8	13	9	11	13	11	13	25	169
(19) Knighton ...	20	8	16	16	9	11	12	12	11	13	9	23	160
(20) Dorrington ...	23	13	20	19	11	15	14	14	18	16	22	26	211
(21) Ellesmere ...	20	8	16	15	7	12	9	8	13	11	12	20	151
(22) Bromfield ...	21	14	21	18	8	13	14	15	14	14	19	27	198
(23) Ludlow ...	17	8	17	10	7	8	10	11	8	12	15	24	147
(24) Bromfield ...	22	13	19	16	7	7	10	12	12	14	18	26	176
(25) Newport ...	20	12	17	18	8	14	13	14	13	13	21	27	190
(26) Shifnal ...	20	12	17	18	8	13	13	11	13	14	17	24	180
(27) Whitchurch ...	21	17	17	12	9	15	16	10	9	10	12	22	170
(28) Shrewsbury ...	23	12	19	17	7	13	12	10	13	13	15	22	176
(29) Chetwynd ...	25	10	19	17	8	16	13	14	11	13	20	27	193
(30) Chetwynd ...	24	12	18	17	8	15	13	14	10	13	19	26	189
(31) Fitz ...	23	12	20	14	9	13	14	10	14	16	*17	*24	186
(32) Radbrook ...	25	14	19	17	8	14	12	11	14	13	15	22	184
(34) Edgmond ...	19	10	13	14	6	13	10	12	10	13	16	21	157
(35) Newport ...	22	8	14	12	7	11	12	12	10	11	17	21	157

TABLE No. 4—(continued).

	JAN.	FEB.	MAR.	APL.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTAL.
(36) Roden ...	18	8	17	15	9	13	11	12	10	11	12	21	157
(37) Shrewsbury ...	25	12	21	16	7	12	12	12	12	12	15	25	181
(38) Shrewsbury ...	23	15	21	19	10	12	13	12	12	14	17	25	193
(39) Worfield ...	24	12	19	17	8	12	12	12	15	13	23	24	191
Totals ...	753	402	638	560	292	439	417	417	434	444	594	843	**6233**
Averages ...	22	12	18	16	9	13	12	12	12	12	17	24	**178**

* Approximate.

TABLE No. 5.

Highest and Lowest Temperatures in each month.

	Jan.	Feb.	Mar.	Apl.	May.	June.	July	Aug.	Sept.	Oct.	Nov.	Dec.	
(7) Church Stretton ...	50 26	50 16	54 21	68 28	82 30	84 42	84 46	85 40	76 38	60 32	54 22	54 28	— 1190
(12) Broseley ...	47 19	49 12	53 27	60 26	78 37	82 38	75 40	86 37	83 29	62 29	55 20	55 23	— 1122
(13) Wistanstow ...	49 24	50 18	54 25	68 25	76 38	80 38	77 41	83 37	82 27	65 30	58 21	55 27	— 1148
(17) Craven Arms ...	51 24	50 20	54 24	68 30	76 37	80 39	78 43	82 38	80 26	62 29	56 19	54 25	— 1145
(24) Bromfield ...	51 21	52 12	56 22	70 24	77 33	80 34	77 40	85 35	81 24	65 26	57 17	54 25	— 1118
(26) Shifnal ...	48 24	49 15	56 25	67 25	77 34	82 37	77 39	84 37	83 26	68 28	56 20	54 26	— 1137
(28) Shrewsbury ...	52 19	49 11	56 21	69 23	81 34	83 36	77 39	85 35	79 27	66 27	56 17	58 24	— 1124
(29) Chetwynd ...	50 19	50 15	54 25	67 25	80 33	81 36	72 42	83 34	83 27	65 28	56 16	52 26	— 1219
(31) Fitz ...	49 18	51 15	55 23	69 23	79 36	78 42	78 42	86 35	85 28	69 29	*56*14	*55*26	— 1141
(35) Newport ...	52 21	51 18	65 28	72 27	82 37	83 37	77 46	83 31	84 29	70 28	58 20	55 29	— 1183
(36) Roden ...	49 16	49 12	55 25	61 23	79 35	80 38	76 39	83 35	85 29	67 28	55 18	54 27	— 1118
(39) Worfield ...	52 22	55 14	64 22	76 22	86 34	90 34	82 40	94 34	90 26	72 28	60 18	58 26	— 1199
Totals	600 253	605 178	676 288	815 301	953 418	983 451	930 499	1019 428	991 336	791 342	677 222	658 312	—13826
Averages	50 21	50 15	56 24	68 25	79 35	83 38	78 42	85 36	83 28	66 27	56 18	55 26	— 1152

* Approximate.

W. M. D. La Touche.